Job: _____

Engineer: _____

Contractor: _____

Prepared By: _____ Date: _____

Model: _____

Raytherm® - Type H

Hydronic Heating Boilers Commercial

Models 926-1758 (Outdoor)

EFFICIENT

- **82% thermal efficiency – highest of any atmospheric boiler available today**

THERMAL SHOCK PROOF

- **Twenty-year warranty against thermal shock damage up to 150°F differential**
- **Maximum operating temperature: 230°F**

LIGHTWEIGHT

- **A floor load of 70 lbs./sq. ft. or less**

HIGH RECOVERY

- **Cuts fuel costs substantially because the standby and radiation losses normal to other boilers are eliminated**

LOW WATER OPERATING TEMPERATURE

- **Operates with water temperature as low as 105°F without condensing**

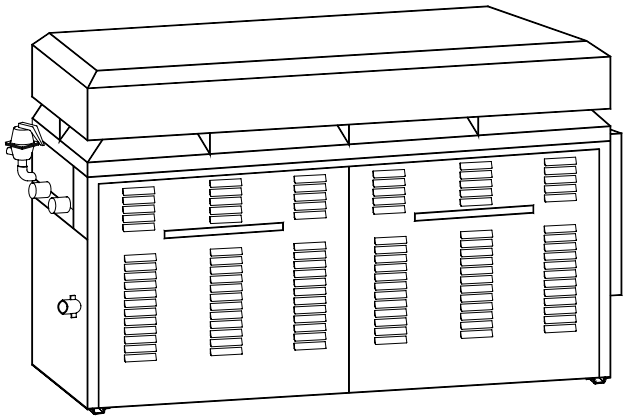


Fig. #8953

Heat Exchanger
- ASME Inspected and Stamped 160 PSIG
- National Board Approved
- Headers
  - ☐ Glass-lined Cast Iron – Standard
  - ☐ Bronze – Option A-1
- Finned Tubing
  - ☐ Copper – Standard
  - ☐ Cupro Nickel – Option A-3
- ASME Steel Tube Sheet
- Silicone O-Rings
- 60 PSIG ASME Pressure Relief Valve
- Temperature and Pressure Gauge (Boiler)
- Water Connections
  - ☐ Left Hand – Standard
  - ☐ Right Hand – Option A-6
- Flow Configuration
  - ☐ Two-pass – Standard
  - ☐ Single-pass (Cast Iron Only)
- Pump, Rear-mounted (Optional)
  - ☐ 4.25" Impeller
  - ☐ 4.7" Impeller

Controls
- 120V, 60Hz, 1 Ph Power Supply
- 120/24V Transformer
- 100% Pilot Shut-off/Lockout
- Electronic, Intermittent Ignition (IID) Pilot
- High Limit Control, Manual Reset

Controls (cont.)
- On/Off Switch
- Flow Switch
- Economaster II Pump Time Delay

Gas Control Train
- Manual Main Gas Shut-off Cock
- Main Gas Pressure Regulator
- Redundant Safety Shut-off Valve
- Control Valve
- Firing Mode
  - ☐ On/off (H4)
  - ☐ Two-stage Firing (H3)
  - ☐ Four-stage Firing (H9)
  - ☐ Mechanical Modulation, 110-170°F (H5)
  - ☐ Mechanical Modulation, 150-210°F (H1)
  - ☐ Motorized Modulation (H2)
  - ☐ B-6000 (H6)
- Fuel
  - ☐ Natural Gas
  - ☐ Propane Gas
- Design Certified ANSI Z21.13/CSA 4.9

Construction
- Front Controls
- Stainless Steel Burners
- Polytuf Powder Coat Finish
- Stackless Top
- Base (Optional)
  - ☐ Combustible Floor Shield – Option J-1

Temperature Controllers

Note: H1 and H5 do not require a controller

- ☐ B-7 Modulating
- ☐ B-5 Modulating, Outdoor Reset
- ☐ B-6 Two-stage
- ☐ B-___ Four-stage Digital
- ☐ Y-241 Electronic Sequencer, 1-4 Stages
- ☐ Y-281 Electronic Sequencer, 1-8 Stages

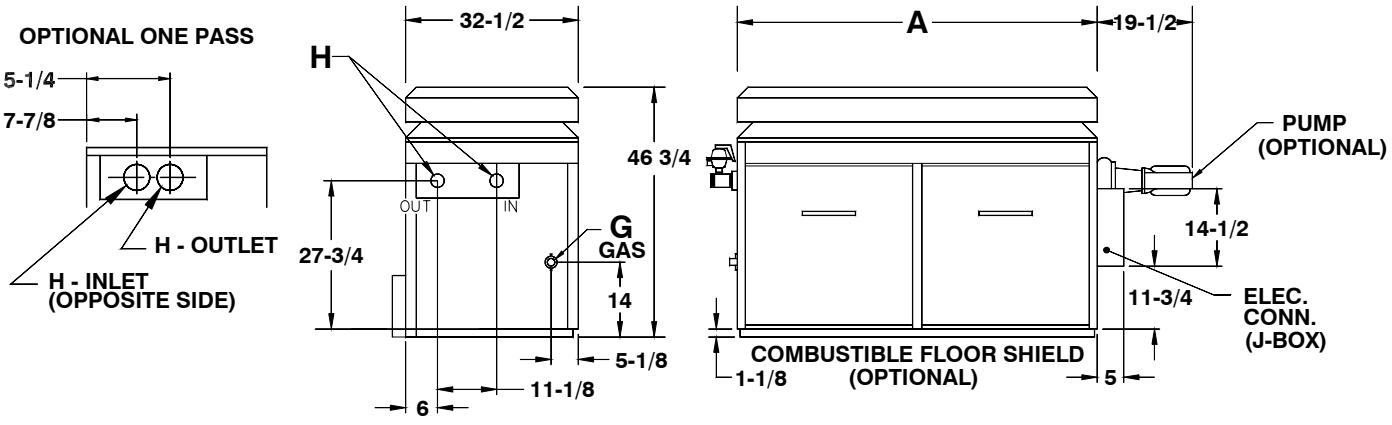
Additional Safety Controls
- ☐ F-9 Low Water Cut-off Probe
- ☐ I-1 High Limit Control, Auto Reset
- ☐ S-1 Low Gas Pressure Switch
- ☐ S-2 High Gas Pressure Switch
- ☐ _____ _____
- ☐ _____ _____

Regulatory Agency Requirements
- ☐ _____
- ☐ _____

Raypak® A Rheem® Company

Raytherm - Type H
Hydronic Heating Boilers

Model _____



MODELS H 926-1758

Model No.	MBTU Natural Gas		Dimensions (Inches)			Approx. Shipping Weight (Lbs.)
	Input	Output	Width A	Gas Conn. G	Water Conn. H	
H-926	926.0	759.0	52-3/8	1	2-1/2 (b)	785
H-1083	1083.0	888.0	59-1/4	1 (a)	2-1/2 (b)	865
H-1178	1178.0	966.0	63-5/8	1 (a)	2-1/2 (b)	925
H-1287	1287.0	1055.0	68-5/8	1-1/4	2-1/2 (b)	980
H-1414	1413.0	1158.5	74-7/8	1-1/4	2-1/2 (b)	1080
H-1571	1570.0	1287.0	81-1/8	1-1/4	2-1/2 (b)	1130
H-1758	1758.0	1441.5	89-3/8	1-1/4	2-1/2 (b)	1160

NOTE: Ratings shown are for elevations up to 2,000 feet. For elevations over 2,000 feet, reduce ratings at the rate of 4% for each 1,000 feet above sea level.

(a) 1" or 1-1/4", depending on boiler type or code requirements
(b) 3" NPT on single-pass option

BOILER RATE OF FLOW AND PRESSURE DROP

Model No.	Two-pass Systems								Single-pass Systems							
	10° ΔT		20° ΔT		30° ΔT		40°ΔT		10° ΔT		20° ΔT		30° ΔT		40°ΔT	
	GPM	ΔP FT	GPM	ΔP FT	GPM	ΔP FT	GPM	ΔP FT	GPM	ΔP FT	GPM	ΔP FT	GPM	ΔP FT	GPM	ΔP FT
H-926	N/A	N/A	76	8.0	51	3.5	N/A	N/A	152	5.7	N/A	N/A	N/A	N/A	N/A	N/A
H-1083	N/A	N/A	90	12.0	59	5.1	44	2.9	178	8.2	N/A	N/A	N/A	N/A	N/A	N/A
H-1178	N/A	N/A	N/A	N/A	64	6.3	48	3.6	193	10.3	97	2.7	N/A	N/A	N/A	N/A
H-1287	N/A	N/A	N/A	N/A	70	8.0	53	4.5	N/A	N/A	106	3.4	N/A	N/A	N/A	N/A
H-1414	N/A	N/A	N/A	N/A	77	10.2	58	5.8	N/A	N/A	116	4.2	N/A	N/A	N/A	N/A
H-1571	N/A	N/A	N/A	N/A	86	13.2	64	7.3	N/A	N/A	129	5.5	N/A	N/A	N/A	N/A
H-1758	N/A	N/A	N/A	N/A	N/A	N/A	72	9.7	N/A	N/A	144	7.3	96	3.4	N/A	N/A

N/A – Not Applicable

NOTES:
- Maximum acceptable flow through heat exchanger tubes is 90 GPM for two-pass and 200 GPM for single-pass systems.
- In closed heating systems, GPM may increase by 10% and pressure drop by 21%.
- Single-pass heat exchangers should be used only when flow rates exceed maximum acceptable rates for two-pass.

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